

**ABSTRACT OF THE DISCLOSURE**

A method of producing a plastic molded object, including preparing a mold assembly including a cavity that forms a surface of the plastic molded object with a transfer surface of the cavity, a slide cavity piece including a sliding surface and a molding surface forming at least a part of one surface of the plastic molded object, and a metallic mold that slidably holds the slide cavity piece, heating the mold assembly to a temperature lower than a softening temperature of a molten resin, filling the cavity with the molten resin, cooling the molten resin to a temperature lower than the softening temperature of the molten resin, wherein the cooling includes contracting a volume of the molten resin, and sliding the slide cavity piece toward the molten resin by a contact-force of the molding surface with the molten resin, thereby compensating for contraction of the volume of the molten resin.